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AMENDMENT

In the Claims:

1. (Currently amended) An energy curable composition comprising:

a compound having

~~an aromatic or heteroaromatic moiety~~ the formula



wherein

R is the aromatic or heteroaromatic moiety;

Y is O or S;

R_f includes the fluorinated alkylene, arylene or polyether moiety;

E is the ethylenically unsaturated moiety; and

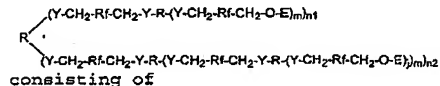
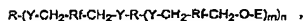
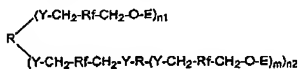
n is 2, 3 or 4;

at least two fluorinated alkylene, arylene or polyether moieties, each fluorinated alkylene, arylene or polyether moiety being linked to the aromatic or heteroaromatic moiety through an ether or thioether;

at least one ethylenically unsaturated moiety, each ethylenically unsaturated moiety being linked to one of the fluorinated alkylene, arylene or polyether moieties.

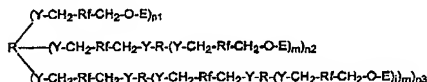
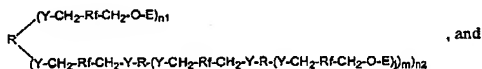
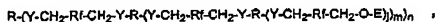
2. (Cancelled)

3. (Original) The energy curable composition of claim 1 wherein the compound has a formula selected from the group



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wherein

each R is an aromatic or heteroaromatic moiety;
 each Y is O or S; each R_f includes a fluorinated
 alkylene moiety, a fluorinated arylene moiety, or a fluorinated
 polyether moiety;

each E is an ethylenically unsaturated moiety;

each j is 1, 2, or 3;

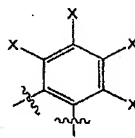
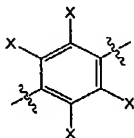
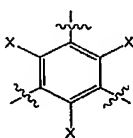
each m is 1, 2 or 3;

each n subscript is 0, 1, 2, 3 or 4; and

the sum of the n subscripts in each formula is 2, 3

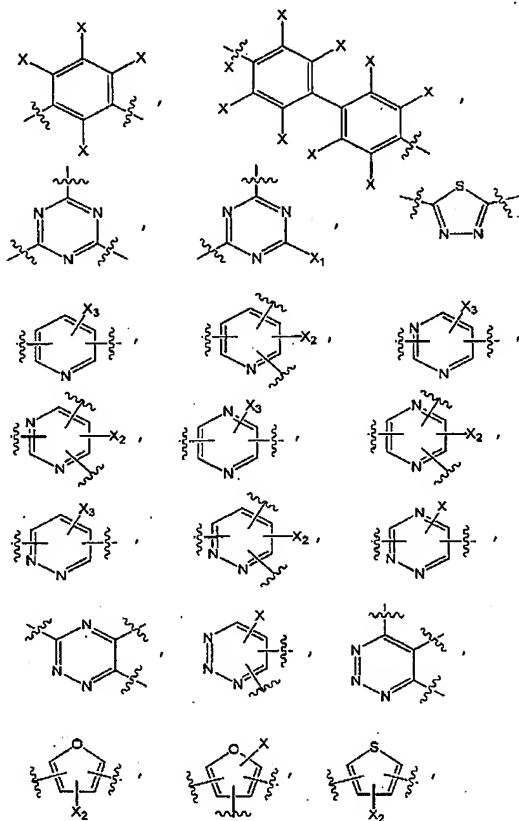
or 4.

4. (Original) The energy curable composition of claim 1
 wherein the aromatic or heteroaromatic moiety is selected from
 the group consisting of



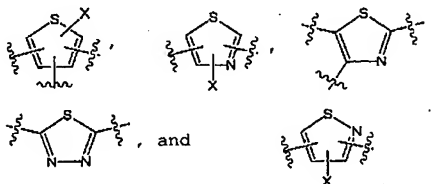
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5. (Currently amended) The energy curable composition of claim 1 wherein the fluorinated alkylene, arylene or polyether moiety is selected from the group consisting of

- $(CF_2)_x$ -,
- $(C_6F_4)_x$ -,
- $CF_2O-[(CF_2CF_2O)_m(CF_2O)_n]-CF_2$ -,
- $CF(CF_3)O(CF_2)_4O[CF(CF_3)CF_2O]_pCF(CF_3)$ -, and
- $CF_2O-(CF_2CF_2O)_n-CF_2$ -,

wherein x is an integer between 1 and about 10;
 m and n designate the number of randomly distributed perfluoroethyleneoxy and perfluoromethyleneoxy backbone repeating subunits, respectively; and
 p designates the number of - $CF(CF_3)CF_2O$ - backbone repeating subunits.

6. (Original) The energy curable composition of claim 1 wherein each ethylenically unsaturated moiety is selected from the group consisting of acrylate, methacrylate, haloacrylate, halomethacrylate, vinyl ether and allyl ether.

7. (Original) The energy curable composition of claim 1 having a C_m of less than about 55 M.

8. (Original) The energy curable composition of claim 1 having a C_m of less than about 20 M.

9. (Original) The energy curable composition of claim 1 having a C_m of less than about 10 M.

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10. (Original) The energy curable composition of claim 1 having an absorption loss of less than about 0.5 dB/cm at 1550 nm.

11. (Original) The energy curable composition of claim 1 having an absorption loss of less than about 0.2 dB/cm at 1550 nm.

12. (Original) The energy curable composition of claim 1 having an absorption loss of less than about 0.1 dB/cm at 1550 nm.

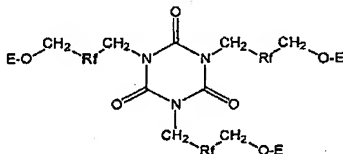
13. (Original) The energy curable composition of claim 1 further including an initiator.

14. (Original) The energy curable composition of claim 1 wherein the compound is present in an amount of at least about 10% by weight.

15. (Withdrawn) An energy curable composition comprising:
a compound having an isocyanurate moiety,
three fluorinated alkylene, arylene, or polyether moieties linked to the isocyanurate moiety at the nitrogens of the isocyanurate, and at least one ethylenically unsaturated moiety linked to one of the fluorinated alkylene, arylene, or polyether moieties.

16. (Withdrawn) The energy curable composition of claim 15 comprising

a compound having the formula

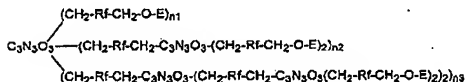
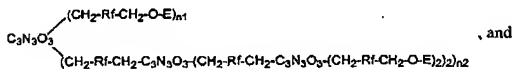
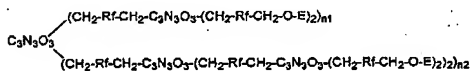
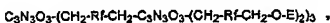
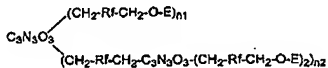


wherein R_f includes a fluorinated alkylene, arylene or polyether moiety and E is an ethylenically unsaturated moiety.

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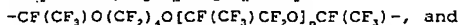
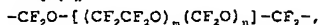
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17. (Withdrawn) The energy curable composition of claim 15 wherein the compound has a formula selected from the group consisting of



wherein $\text{C}_3\text{N}_3\text{O}_3$ is the isocyanurate nucleus; each Rf includes a fluorinated alkylene moiety, a fluorinated arylene moiety, or a fluorinated polyether moiety; each E is an ethylenically unsaturated moiety; each n subscript is 0, 1, 2 or 3; and the sum of the n subscripts in each formula is 3.

18. (Withdrawn) The energy curable composition of claim 15 wherein the fluorinated alkylene, arylene or polyether moiety is selected from the group consisting of



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wherein x is an integer between 1 and about 10;
 m and n designate the number of randomly distributed
perfluoroethyleneoxy and perfluoromethyleneoxy backbone
repeating subunits, respectively; and
 p designates the number of $-\text{CF}(\text{CF}_3)\text{CF}_2\text{O}-$ backbone repeating
subunits.

19. (Withdrawn) The energy curable composition of claim 15
wherein each ethylenically unsaturated moiety is selected from
the group consisting of acrylate, methacrylate, haloacrylate,
halomethacrylate, vinyl ether and allyl ether.

20. (Withdrawn) The energy curable composition of claim 15
having a C_n of less than about 55 M.

21. (Withdrawn) The energy curable composition of claim 15
having a C_n of less than about 20 M.

22. (Withdrawn) The energy curable composition of claim 15
having a C_n of less than about 10 M.

23. (Withdrawn) The energy curable composition of claim 15
wherein the compound is present in an amount of at least 10% by
weight.

24. (Original) A polymeric material, the polymeric material
comprising a polymer or copolymer of an energy curable
composition, the energy curable composition having
an aromatic or heteroaromatic moiety;
at least two fluorinated alkylene, arylene or
polyether moieties, each fluorinated alkylene, arylene or
polyether moiety being linked to the aromatic or heteroaromatic
moiety through an ether or thioether;
at least one ethylenically unsaturated moiety, each
ethylenically unsaturated moiety being linked to one of the
fluorinated alkylene, arylene or polyether moieties.

25. (Original) The polymeric material of claim 24 wherein
the energy curable compound has the formula

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wherein

R is the aromatic or heteroaromatic moiety;

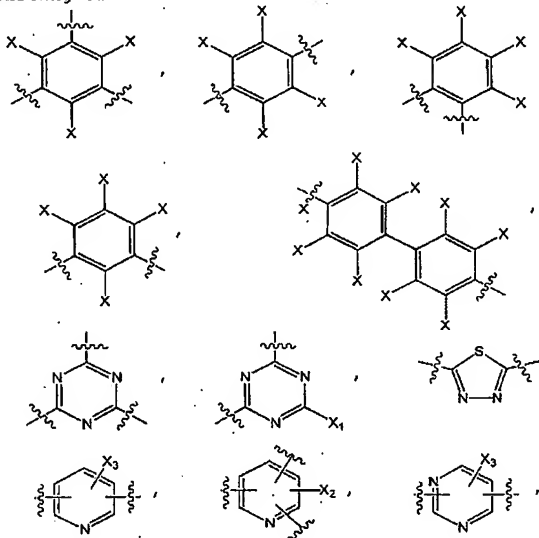
Y is O or S;

R_f includes the fluorinated alkylene, arylene or polyether moiety;

E is the ethylenically unsaturated moiety; and

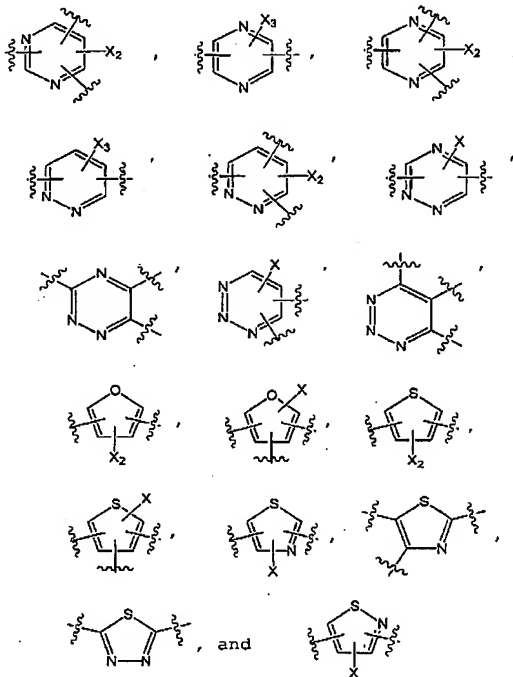
n is 2, 3 or 4.

26. (Original) The polymeric material of claim 24 wherein the aromatic or heteroaromatic moiety is selected from the group consisting of



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27. (Original) The polymeric material of claim 24 wherein the fluorinated alkylene, arylene or polyether moiety is selected from the group consisting of

- $(CF_2)_x$ -
- $(C_2F_4)_x$ -
- $CF_2O-[(CF_2CF_2O)_n(CF_2O)_n]-CF_2$ -
- $CF(CF_3)O(CF_2)_4O[CF(CF_3)CF_2O]_pCF(CF_3)$ -
- $CF_2O-(CF_2CF_2O)_n-CF_2$ -

wherein x is an integer between 1 and about 10;

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m and n designate the number of randomly distributed perfluoroethyleneoxy and perfluoromethyleneoxy backbone repeating subunits, respectively; and p designates the number of $-\text{CF}(\text{CF}_3)\text{CF}_2\text{O}-$ backbone repeating subunits.

28. (Original) The polymeric material of claim 24 having a C_n of less than about 55 M

29. (Original) The polymeric material of claim 24 having a C_n of less than about 20 M.

30. (Original) The polymeric material of claim 24 having a C_n of less than about 10 M.

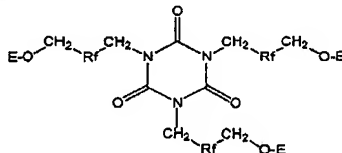
31. (Original) The polymeric material of claim 24 having an absorption loss of less than about 0.5 dB/cm at 1550 nm.

32. (Withdrawn) A polymeric material, the polymeric material comprising a polymer or copolymer of an energy curable composition including

 a compound having an isocyanurate moiety,
 three fluorinated alkylene, arylene, or polyether moieties linked to the isocyanurate moiety at the nitrogens of the isocyanurate, and

 at least one ethylenically unsaturated moiety linked to one of the fluorinated alkylene, arylene, or polyether moieties.

33. (Withdrawn) The polymeric material of claim 32 wherein the energy curable compound has the formula



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wherein Rf includes a fluorinated alkylene, arylene or polyether moiety and E is an ethylenically unsaturated moiety.

34. (Withdrawn) The polymeric material of claim 32 wherein the fluorinated alkylene, arylene or polyether moiety is selected from the group consisting of

- (CF₂)_x-
- (C₆F₄)_x-
- CF₂O-[(CF₂CF₂O)_m(CF₂O)_n]-CF₂-
- CF(CF₃)O(CF₂)_pO[CF(CF₃)CF₂O]_pCF(CF₃)-, and
- CF₂O-(CF₂CF₂O)_m-CF₂-

wherein x is an integer between 1 and about 10;
m and n designate the number of randomly distributed perfluoroethyleneoxy and perfluoromethyleneoxy backbone repeating subunits, respectively; and
p designates the number of -CF(CF₃)CF₂O- backbone repeating subunits.

35. (Withdrawn) The polymeric material of claim 32 having a C_H of less than about 55 M

36. (Withdrawn) The polymeric material of claim 32 having a C_H of less than about 20 M.

37. (Withdrawn) The polymeric material of claim 32 having a C_H of less than about 10 M.

38. (Withdrawn) The polymeric material of claim 32 having an absorption loss of less than about 0.5 dB/cm at 1550 nm.

39. (Original) An optical element comprising a polymeric core, the polymeric core including a polymer or copolymer of an energy curable compound having an aromatic or heteroaromatic moiety;

at least two fluorinated alkylene, arylene or polyether moieties, each fluorinated alkylene, arylene or polyether moiety being linked to the aromatic or heteroaromatic moiety through an ether or thioether;

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at least one ethylenically unsaturated moiety, each ethylenically unsaturated moiety being linked to one of the fluorinated alkylene, arylene or polyether moieties.

40. (Original) The optical element of claim 39 wherein the fluorinated alkylene, arylene or polyether moiety is selected from the group consisting of

- (CF₂)_x-
- (C₆F₄)_x-
- CF₂O-[(CF₂CF₂O)_m(CF₂O)_n]-CF₂-
- CF(CF₃)O(CF₂)₂O[CF(CF₃)CF₂O]₂CF(CF₃)-, and
- CF₂O-(CF₂CF₂O)_n-CF₂-

wherein x is an integer between 1 and about 10;

m and n designate the number of randomly distributed perfluoroethyleneoxy and perfluoromethyleneoxy backbone repeating subunits, respectively; and

p designates the number of -CF(CF₃)CF₂O- backbone repeating subunits.

41. (Original) The optical element of claim 39 wherein the polymeric core has a C_x of less than about 55 M.

42. (Original) The optical element of claim 39 wherein the polymeric core has an absorption loss of less than about 0.5 dB/cm at 1550 nm.

43. (Withdrawn) An optical element comprising a polymeric core, the polymeric core including a polymer or copolymer of an energy curable compound having an isocyanurate moiety,

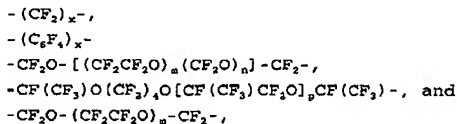
three fluorinated alkylene, arylene, or polyether moieties linked to the isocyanurate moiety at the nitrogens of the isocyanurate, and

at least one ethylenically unsaturated moiety linked to one of the fluorinated alkylene, arylene, or polyether moieties.

44. (Withdrawn) The optical element of claim 43 wherein the fluorinated alkylene, arylene or polyether moiety is selected from the group consisting of

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wherein x is an integer between 1 and about 10;
 m and n designate the number of randomly distributed
perfluoroethyleneoxy and perfluoromethyleneoxy backbone
repeating subunits, respectively; and
 p designates the number of $-\text{CF}(\text{CF}_3)\text{CF}_2\text{O}-$ backbone repeating
subunits.

45. (Withdrawn) The optical element of claim 43 wherein the
polymeric core has a C_n of less than about 55 M.

46. (Withdrawn) The optical element of claim 43 wherein the
polymeric core has an absorption loss of less than about 0.5
dB/cm at 1550 nm.